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1490 2002 1395 1126
1415

Coupled Systems
901 1583 1396 1298 1209
1319

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1456 618

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672 673 1254
1612

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2000 1772 718
2050

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1929

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also Air Bags (Safety Restraint Systems)
1720 1714
1764

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661 782 1073 3741935 1238 119
1331 1852 1483 1984 1649
1879

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Structures and Cylinders

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80 181 92 253 254 85 256 497 88 89
1420 671 252 293 444 265 496 667 258 249
1700 771 442 363 664 425 556 1877 988 429
1790 901 662 443 994 435 666 1887 1508 439
1970 961 1132 675 766 2007 1668 599
1001 1322 775 836 1698 999
1321 1792 1315 916 1708 1049
1701 1695 1316 1738 1699
1881 1326 1798 2019
2011 1506 2008 2029
2021 2016 2018
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951 702 1464 115 46 127
1012 706

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Damping use a more specific term: Aerodynamic
Damping, Coulomb Damping, Critical Damping,
Displacement Damping, Distributed Damping,
Hysteretic Damping, Material Damping, Modal
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ing, Structural Damping, Tuned Dampers,
Viscoelastic Damping, Viscous Damping

Damping

1080 371 42 1183 54 205 136 597 308 1079
1410 1511 322 1563 375 596 1417 398 1639
1860 1821 372 1593 595 1416 1577 1658
1960 1262 1933 1405 1856 1838
1962 1525

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1475

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1408

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1374 1285 847 1868

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specific term: Cavity-Containing Media, Hole-
Containing Media, Opening-Containing Media,
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840 361 352 1643 835 1996 1507 1088 1049
1071 1693 1515 1628
1645

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Parameter Methods

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1100 1272
1460
1580

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1752 1855

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1610 472 814 828 1169
1990 1342 1904 1168 1189
1499

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70 71 202 313 294 65 26 87 98 89
90 251 262 1023 304 135 156 157 208 139
140 531 492 1113 364 145 406 667 478 319
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180 691 692 1463 664 245 556 727 688 649
230 1121 792 1593 674 275 666 757 808 919
240 1171 872 1603 714 365 676 797 928 1429
260 1391 1102 1673 774 605 756 847 938 1479
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910 1812 1174 915 1306 1357 1198 1749
990 1324 935 1456 1607 1288 1869
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1110 1744 1185 1598
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1150 1954 1255 1878
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1700 1425
1870 1475
2000 1705
2055

Dynamic Stability

630 381 452 73 1044 325 76 898 239
640 771 732 1043 1414 375 526 1108 2059
750 981 942 1283 1574 425 886 1808
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1560

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Dynamic Structural Response use Dynamic Response

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1410 1232 1413 1054 105 7 778 569
1424 1045 1617 749
1805 1799
1815

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1270 221 802 603 144 475 1056 217 698 879
1540 701 972 693 1265 1906
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1733
1763

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2051

Earthquake Damage
1401 922 125 1016
1911

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950 951 1249

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1950

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1950

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1600 11512 303 554 1196 547 1428 909
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541 983 1194 987
991 993 1444 1047
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1324 1175 1866

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960 361 352 1693 1644 35
1071 592 1255
1642 1645

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680 1641 914 1646 1647 789

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1720 511 1482 703 1714 725 366 1337 148 149
1522 1764 985 1386 1667 238 709
1722 1715 1718 719
1719

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1933

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1220 301 76
1421
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1141 2034 1375 466 948 1529
876 1928 1759
1406

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491 153 1034 757 459
1751 1477 1199
1761

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513 154 337

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771 1162 1076 577

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550 521 562 933 1124 995 1286 1107 908 1669
2050 632 1533 1587 1979

Equipment Response

220 692 1184 115 116
500 215
570 705
620 1585
1030
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1807

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303 798

Excitation use a more specific term: Acoustic
Excitation, Aperiodic Excitation, Brake Ex-
citation, Dynamic Pressure Excitation, Gyro-
scopic Excitation, High Frequency Excitation,
Parametric Excitation, Periodic Excitation,
Point Source Excitation, Random Excitation,
Self-Excitation, Shock Excitation, Stick-Slip
Excitation, Time Dependent Excitation, Wind-
Induced Excitation

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200 201 342 263 354 1075 356 587 1148 1249
1130 251 752 353 1074 1835 1106 1257 1348 1209
691 1252 1834 1836 1538 1849
951 2058
1251

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1370 501 1373
1750 711
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622 1328
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915 1068
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790 1811 1782 1053 968
2060

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10 161 12 133 334 15 16 147 8 9
150 181 182 303 544 185 186 167 188 319
320 311 202 323 564 445 326 187 318 739
480 441 252 333 644 555 426 317 678 879
650 541 332 453 924 565 556 557 918 1509
740 1051 412 1803 1044 705 566 567 928 1609
1150 1191 662 1943 1014 735 736 737 978 1649
1190 1221 1192 1804 925 776 767 1008
1510 1851 1222 1814 935 836 837 1608
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1426 1567
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1616 2017
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420 1871 432 623 74 1105 246 1517 68 79
430 1122 1323 244 1115 276 398 399
450 1292 1873 964 1485 326 1698 659
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1341 1342 1723 1144 275 1146 1147 1808 1619
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650 241 1792 253 675 496 497 368 249
1020 671 1193 1307 648 729
1613 1738

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242 1753 1105 966 67 208 1699
812 1285 1646 717 1958
902 1755 1666 1647
1882 1757
1987

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30 964 965 376 147 968 729
600 1845 377
1020

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450 291 242 1123 894 95 186 67 178 469
730 371 272 1143 1494 525 117 468 1179
1570 391 1182 1684 565 227 1178 1619
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921 1005 607
1181 1145 1177
1691 1595 1937

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1951 1923

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870 882 883 884 1265 196 727 1148 519

880 942 1383 1074 1385 516 777 1378 809

1002 1543 1925 696 867 1768 1379

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477

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 1239
 1819

Measuring Instruments

390 51 1092 1093 1084 1465 226 57 48
 611 1272 1273 1094 1855 346 1097 1138
 861 1973 786 1127 1268
 971 1856 1658

Mechanical Elements

190 1761 1232 1033 47 99
 1743 1227
 1477

Mechanical Impedance see also Mobility Methods

11 230 182 225 6 177 1539
 232 176 1357

Mechanical Properties

260 1681 365 958 779
 590 1305
 900
 1460

Mechanical Systems

1250 785 18
 1975

Mechanical Waves

70 121 344 115 96 787 198 599
 150 1641 914 1646 1647 789
 680

Mechanisms

100 1294 1295 47 1119
 1120 1207 1689
 1870 1497

Median Barriers use Guardrails

Medians

1648
 1768

Medical Instruments

486

Membranes

1300 1872 423 564 1576 987 988
 1133
 2003

Metal Forms

1482

Metal Working

421 145
 1035
 1365

Method of Characteristics

1790 1863 1985 629

Method of Collocation use Collocation Method

Microphones

1447

Mills

170 1743

Mines (Ordnance)

1074 1075 1148

Mines (Excavations)

479

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Minimum Mass Design use Minimum Weight Design

Minimum Weight Design
534 1005

Missile Launchers
760

567
617

Missiles
2060 531 375 956

Modal Analysis
230 21 212 13 24 355 1276 777 678
1202 1013 104 735 1786 927
174 1785 1886 1737
294 1797

Modal Damping
595

Modal Densities use Modal Analysis

Modal Models
777 1429

Modal Synthesis use Component Mode Synthesis

Modal Velocity use Modal Analysis

Mode Shapes
80 162 1193 634 655 656 557 258
1040 322 1583 1794 1615 956 657
1170 632 1006 1577
1220 992 1036
1862 1426
1942

Model Tests use Test Models

Modulation Principles
869

Moire Patterns
975
1655

Moment Distribution Method
1412

Monte Carlo Method
1690 306
1196

Moon
1831

Mooring see also Ship Anchors
1931

Motor Boats
788

Motor Cycles
1026

Motor Vehicle Collision use Collision Research (Automotive)

Motor Vehicles
720 721 722 723 494 695 156 727 728 59
810 801 882 783 724 196 777 1148 809
870 1061 2052 1383 1074 516 867
1543 696 877
726
826
876
1026

Mountings use a more specific term: Shock Isolators, Vibration Isolators

Moving Loads
450 1411 674 1906 688 1609
630
1700

Moving Sources
1956

Moving Strips see also Magnetic Tapes
73 1745 1299

Mufflers see also Noise Reduction
2030 514 1759

Multibeam Systems
1744

Multidegree-of-Freedom Systems
1362 1214 1036 1069
1432 1424 1606 1219
1809

Multistory Buildings
930 691 1013 1734 125 477 1618 19
1350 1011 1153 1914 475 1908 689
1910 1151 1685 849
1009
1909

Musical Instruments see also Violin
623
643
1873

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N

NASTRAN (Computer Program)

650 662 334 565 186 187 188 739
740 644 705 566 567 678
735 737
897

Natural Frequencies

80 431 92 253 94 45 256 207 258 9
250 451 162 373 424 405 396 477 548 79
620 521 262 423 434 455 656 557 648 329
660 991 322 433 454 565 826 657 838 559
930 1291 332 653 614 575 836 897 1318 699
1000 1431 542 833 624 1325 956 917 1478 839
1020 1751 632 903 634 1615 1006 1037 1728 1129
1040 832 963 1014 1995 1036 1327 1798 1209
1170 992 993 1164 1136 1507 1978 1519
1220 1332 1133 1304 1206 1657 1619
1300 1412 1293 1326 1669
1400 1432 1503 1346 2019
1430 1582 1583 1396
1730 1672 1873 1426
1862 1486
1942 1796
1986
2006

Network Theory

1294

Newmark Method

910

Noise Abatement use Noise Reduction

Noise Control use Noise Reduction

Noise Detectors use Acoustic Detectors

Noise Generation

1620 501 1372 503 1024 1065 796 1447 1828 1359
581 1442 583 1624 1545 1446 1727 1439
801 1373 1724
1934

Noise Measurement see also Acoustic Measurement

580 681 482 1063 134 465 336 947 358 509
1480 801 1243 845 786 1097 788 809
1530 941 1275 1156 1157 798 1159
1231 1825 1236 1437 1028 1239
1551 1626 1448 1359
1858 1759
1819

Noise Prediction

1370 711 1953 694 456 1157 1759
1371 1156
1621

Noise Reduction see also Mufflers, Sound Absorbers

40 31 32 193 124 235 106 387 348 459
350 121 582 343 194 345 126 417 458 679
360 471 682 683 464 485 166 457 578 699
460 601 822 733 524 905 466 647 1028 759
510 761 882 793 844 945 506 677 1248 939
520 1061 1142 1183 1004 1245 576 947 1368 1019
1060 1141 1922 1233 1454 1375 646 1307 1928 1359
1230 1351 2032 1263 1824 1525 876 1367 1449
1860 1481 2033 1994 1955 896 1557 1459
1920 1631 2053 1406 1627 1529
1731 1526 1817 1769
2051 1726 1819
1916 1899
1976
2036

Noise Tolerance

580 581 862 863 864 485 336 27 488 29
860 1901 1162 873 944 585 856 467 858 479
1160 2032 855 1066 577 878 579
1360 865 1076 857 1248 789
1540 1245 1246 1537 1358 1229
1355 1356
1725 1376
1536

Noise Transmission

1301 1247

Nonconservative Forces

1800

Nondestructive Tests

1100 392 393 505 56 237 48
1500 813 815 346 687 818
616 1268

Nonlinear Damping

1120 1961 976
1416

Nonlinear Programing Technique

825

Nonlinear Response

310 1301 432 323 1104 315 306 1147 918 979
1790 1321 1863 1124 1487 1489
1511 1194 1877 1839

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Nonlinear Systems

770 551 772 1214 5 1036 1807 1208 549
1210 911 912 1604 305 1938 769
2064 335 1998 1639
745

Nonlinear Theories

453 438
988

Nonlinear Vibrations use Nonlinear Response

Normal Modes

13 644 545 566 567 909
665 1616 737
1165

Nozzles

1339

Nuclear Explosions (Underground)

691 588
1348

Nuclear Explosions see also Weapons Effects

200 251 353 354 1835 356 357 1348
1130 691 1636 1538
951 1836
1251

Nuclear Fuel Elements

763 1755 1987 1988 1699

Nuclear Powered Ships

1572 1029

Nuclear Power Plants

220 512 1024 875 716 967 1758
1780 2044 2045 1306 2048
1756
2046

Nuclear Reactor Components

190 1753 1754 715 1666 717 238
1830 1883 2015 1757
2047

Nuclear Reactors

708 1349

Numerical Analysis

80 931 442 323 1334 1165 776 248 1049
550 1791 1782 913 1195 1196 968
790 1811 1053 1418
1690 2021 1513 1428
1940
2060

Numerical Techniques

2050 1811 1594 1045

O

Occupant Simulation see also Anthropomorphic Dummies, Human Response

1380 1052

Off-Highway Vehicles see also Tractors

870 1543 695

Offshore Structures

401 812 273 1256
591 902 753

Oil Film

1990

Oil-Whip Phenomena

1991

Openings see also Doors, Holes

480 746 747 748

Optical Methods

1470 412 975
1655

Optimization

830 101 312 103 64 1215 .66 1118 539
1910 1361 1232 313 534 1728 1129
1362 1603 1704 1419
1602 1859

Optimum Damping

1973

Optimum Design

1176 1057

Orthotropic Cylinders

1879

Orthotropic Plates

432 8 659

Orthotropic Shells

435

Oscillations use Vibration Response

Oscillators

481 1852 1253 1654 1216 259
1219

Overhead Guideways use Suspended Structures

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P

Packaging

500 1163 704 495 286 148 149
706 498 499
709

Panels

300 1081 1872 13 424 95 426 427 178 9
1180 1181 1853 644 645 607 208 1179
1301 1124 1177
1691

Parachutes

1730

Paraboloidal Shells

445

Parameter Identification

335 1436 1618 569
1215
1815

Parametric Excitation

1571 1413 1595 1366 7 109
1566 257

Parametric Resonance

33 1694 1416

Parametric Response see also Autoparametric Response, Dynamic Buckling

241 1682 33 1694 775 1416 527
1311 1706

Passenger Vehicles

720 721 722 723 724 1385 156 727 728 1379
801 1002 883 884 516 1027 1378 1559
1172 1763 1026 1377 1768 1769
1382 2053 1376 1557
1386 1717
1767

Passive Isolation

1742 1523 1116 1168
1683

Pathologic Subjects see also Human Response

1716 1739

Pendulum

1423 986 1217
1677

PERFORM (Computer Program)

1054

Periodic Excitation

450 841 772 1413 544 105 1868 69
1411 1843 1754 915 1299
1864 1595 1609

Periodic Response

1700 1171 912 363 624 1205 1256 887 1408 769
1211 2062 593 1524 1395 1676 1487 1798 1909
1601 1213 1644
1793

Periodic Structures

559

Perturbation Method

1420 72 153 315 1216 1937 918 1569
432 423 978
1133 1798
2003

Photoelastic Analysis

412 618

Piezoelectric Materials

1271 1333 1514 995 1318
1711 1854 1325 1658

Pile Driving

1260 1259

Pile Structures

605 797
1155

Pipe Resonators

1063

Piping see also Tubes

650 832 653 1304 1305 1126 1307 649
1240 1302 1063 1306 2049
1613

Piping Resonators use Pipe Resonators

Plastic Deformation

1347

Plastic Properties

900 365

Plasticity Theory

532

Plastics

1454 1525

Plate-Airflow Interaction use Interaction: Plate-Airflow

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Plate-Turbulence Interaction use Interaction:
Plate-Turbulence

Plates (Structural Members)

70 81 82 23 84 255 56 87 8 79
110 91 432 83 94 325 326 167 238 659
250 251 452 93 364 425 436 307 318 669
450 301 672 323 434 535 526 437 438 839
660 321 992 423 544 565 656 607 448 929
670 341 1182 433 584 655 996 657 658 989
840 441 1312 673 614 665 1046 837 918 1129
1050 451 1332 1133 674 775 1136 997 998 1509
1080 1131 1512 1313 1134 835 1226 1037 1078 2009
1130 1181 1692 1323 1324 1125 1696 1047 1318
1220 1271 1702 1433 1514 1135 1706 1327 1878
1310 1311 1882 1513 1894 1325 1796 1507 1888
1580 1501 1892 1803 2014 1415 1936 1697
1690 1511 1932 1893 2024 1505 2006 1737
1890 1651 2002 2023 1515 2027
2010 1891 2012 1705
2020 2022

PLOTBEAM (Computer Program)
1614

Plotting Programs see also Graphic Methods
1614

Plows use Agricultural Machinery

Plowshare Projects
943

Pneumatic Isolators
1742 1683 1116 1917

Pneumatic Lines
1502

Pneumatic Springs
1296 1917

Pneumatic Tires use Tires (Pneumatic)

Pogo Oscillation use Pogo Effect

Point Contact use Hertzian Contact

Point Source Excitation
958

Polymers see also Elastomers
590

Pontryagin Principle
103

Porous Media
1801

Positioning Devices

98 1499

POST (Computer Languages)

568

Power Plants

220 512 944 875 716 947 2048
1780 1024 2045 906 967
2044 1306
1756
2046

Power Spectral Technique

1341 922
1452

Power Train

870

Prediction

201 263 384 1076 597 1069
1634

Presses

1018

Pressure Vessels

974

Prismatic Bodies

893 2015

Probability Theory

1450

Propeller Blades see also Rotary Wings

502 1573 134 197
1912

Protective Shelters

1071 473 746 747 748
2061 1538

Pulse Excitation use Shock Excitation

Pulse Test Method

613

Pumps

1303 504 906 1748
1946

Pyrolytic Graphite Type Materials use Vapor
Deposited Materials

Pyrotechnic Shock Environment

233 199

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R

Radioactive Materials

702 706 707

Railroad Tracks

382 1167

Railroad Trains

1170 1171 382 713 714 507 358
874 1167 508
1374

Random Excitation

530 851 852 53 394 105 276 177 868 749
1410 1571 932 773 1654 215 306 1698 1219
1871 923 275 1016
755 1366
775

Random Response

1450 111 552 214 1135 426 57 218 1939
1940 662 1284 1335 1256 927 1068
852 1424 1606 1067 1938
1832 1434 1856 2018
2064

Random Parameters

1670

Rayleigh-Ritz Method

1428

Rayleigh Method

344 1986

Recording Instruments

1095

Rectangular Beams

329

Rectangular Membranes

1871

Rectangular Plates

70 441 672 673 94 255 1136 607 448 839
450 1311 1222 1223 364 775 1226 998 1509
1080 1511 1332 1313 674 1125 1706
1512 1433 2005

Reentry Vehicles

1101

Regulations

1818

Reinforced Beams

828

Reinforced Concrete

563 475 829
693 715 899

Reinforced Laminates

952

Reinforced Structures

1517

Resonance use a more specific term: Acoustic
Resonance, Cavity Resonance, Parametric
Resonance, Vibration Resonance

Resonance-Bar Technique

1112

Resonance Tests see also Vibration Tests

615 56

Resonant Beam Technique use Resonance-Bar
Technique

Resonant Frequency use Natural Frequencies

Resonators

373 179
575

Response use a more specific term: Acoustic
Response, Bearing Response, Coupled Response,
Frequency Response, High Frequency Response,
Lateral Response, Longitudinal Response, Non-
linear Response, Parametric Response, Peri-
odic Response, Random Vibration Response,
Rotor Response, Seismic Response, Shock Re-
sponse, Structural Response, Torsional Re-
sponse, Transient Response, Unbalanced Mass
Response, Vibration Response

Response Spectra use a more specific term:
Shock Response Spectra, Vibration Response
Spectra

Restraint Systems use Safety Restraint Systems

Reviews

341 342 413 1954 25 1066 338
831 2032 1368

REXBAT (Computer Program)

1786

Rheological Properties

377

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Rigid Inclusion
361 352 1643 1628

Rings
240 1711 1242 455 946 1137 1328 1329
1000 1712 1625 1046 1897 1519
2027

Ring-Springs
240

Ritz Method
1421 15 1519
2005

Road Profile use Road Roughness

Road Roughness see also Runway Roughness
810
820

Rockets
162 234 295
744

Rocks
480 603

Rods see also Bars
1110 322 564 75 416 247 1988 179
1980 1282 1105 966 287 629
1302 1485 627 1109
1987

Roller Bearings
1289

Roofs
1576 9

Ropes use Cables (Ropes)

Rotary Wings
710 141 482 163 854 135 276 277 1808
730 851 852 413 1164 1115 1597
850 1392 853 1534 1735 1737
1750 1912 1533 1724
1913

Rotating Structures see also Compressors,
Shafts, Turbomachinery
1930 1232 1043 574 1185 1586 1297 638 1389
2002 1783 1784 1505 1108 1569
1515

Rotors (Machine Elements) see also Shafts
190 731 1012 63 1564 135 136 407 158 159
890 891 1022 853 1584 1175 886 887 888 289
1390 1351 1372 1783 1774 1565 1176 1067 1108 889
1560 1562 1913 1585 1566 1388
1772 1596 1568
1912 1776
2056

Rotatory Inertia
561 562 254 95 2009
631 842 614
1862 1884

Rotor Blades (Rotary Wings) use Rotary Wings

Rotor Blades (Turbomachinery)
1971 1656 758 639

Rotor Response
160 1822

Roughness use Surface Roughness

Rubber use Elastomers

Rules use Regulations

Runge-Kutta Method
832

Runaway Escapement Mechanisms
1120

Runway Roughness see also Road Roughness
1361 112 1344 1335

S

Safety Belts use Seat Belts

SALORS (Computer Programs)
1811

Safety Restraint Systems
1540 721 1002 1713 1555 1376 1027 1718 859
1660 881 1552 1763 1765 1716 1377 1549
1770 1381 1766 1527
1721 1717
1767

Safety Factors
483
773

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Sand

803 604 1715
1463
1843

Sandwich Beams

1221 402 243 404
1983 1014

Sandwich Plates

1890 1692 425 238

Sandwich Shells

1710 1977

Sandwich Structures see also Laminates

1710 1221 402 243 404 405 238
1890 1692 1453 1014 425
1983

SAP (Computer Program)

937

SATANS (Computer Program)

1812

Satellite Booms (Antenna) use Booms (Antenna)

Scaling use Test Models

Screws

1328

Sea Surface use Surface (Sea)

Seals (Stoppers)

698

Search Techniques

1414 1436

Seatbelts

1770 1721 1377 1718 1549

Seismic Design

750 1581 1883 1024 355 716 1197 2048 689
940 1734 875 1306 1337 899
1350 2044 2045 1756 1829
1780 1816 1959
2046 2049

Seismic Excitation

200 481 962 273 1754 356 357 478 1009
220 1011 1742 353 1836 1917 1849
1291 1832 563
1401 2042 1683
1451 2062 1843
1461
1911

Seismic Response

380 231 342 1013 1224 125 1496 1347 218 829
930 1151 1032 1843 355 2046 1947 1008 949
1830 1462 715 1967 1348 1069
1910 1015 2047 1618 1349
1685 1908 1909
2048

Seismic Waves

354

Self-Excited Vibrations

450 291 242 63 894 95 186 67 178 469
730 371 272 1123 1494 145 117 468 869
1570 391 1182 1143 1684 525 227 1178 1179
1650 421 1542 1783 1784 645 427 1728 1619
1800 671 1005 607 1729
921 1145 1177
1181 1595
1691

Self-Sustained Vibrations use Self-Excited Vibrations

Semi-Trailers

2055

Series (Solution)

1514 1205 87 1428 1569
1668

Shafts (Machine Elements) see also Rotors

1560 521 522 523 1775 2057 1388 1389
2000 1751 1122
2050 1772

Shakedown Theorem

1460

Shakers use a more specific term: Electro-hydraulic Shakers, Hydraulic Shakers, Mechanical Shakers

Shallow Arches

420

Shallow Shells

320 431

Shear Deformations use Transverse Shear Deformations

Shear Modulus

1461 1262 1968

Shear Strength use Transverse Shear Deformation

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Shells of Revolution

20 931 1812 173 454 445 1516 2017 88
320 1811 453 1874 715 1806 248
990 993 1876 1508
1813 2026 1518

Shells (Structural Forms)

10 181 92 33 174 85 446 447 88 89
20 341 202 173 254 265 496 497 248 249
50 431 252 253 324 425 556 917 258 319
80 671 442 293 384 435 666 1317 368 439
90 771 662 363 444 445 766 1877 668 599
320 901 842 443 454 675 836 1887 838 999
440 931 1132 453 654 715 916 2017 1128 1049
990 961 1312 663 664 775 1316 1308 1319
1190 991 1322 993 834 1315 1326 1508 1699
1320 1001 1792 1333 994 1695 1506 1518 1709
1420 1321 1802 1703 1314 1885 1516 1668 1729
1430 1501 1812 1813 1434 1895 1806 1708 1889
1630 1701 1883 1704 2015 1876 1738 2019
1710 1811 2013 1814 1886 1798 2029
1790 1881 1874 1896 2018
1880 2011 1884 2016 2028
1970 2021 1894 2026
1954

Shimmy use Wheel Shimmy

Shipboard Equipment Response

620 1184 1585
1030

Ship Hulls

1393 1394 339

Shipping Containers see also Tanks (Storage)

702 703 706 707

Ship Propellers use Marine Propellers

Ships

60 161 292 1183 734 205 1226 1547 528 1029
290 1931 1572 1055 788
1778

Ship Structural Components

1393 1394 896 339

Ship Vibrations

895 529

Shock Absorbers

60 1482 64 1336 17 708 59
704 1436 107 1279
507

Shock Absorption see also Vibration Aporption

148

Shock Excitation

50 631 602 394 215 196 288 419
751 1252 2014 1695 906 338 439
2011 1932 1985 996 538 629
1952 1696 1038

Shock Isolation

240 292 733 199

Shock Isolators

280 1362 1054 66
1976

Shock Resistant Design use Blast Resistant Design

Shock Response

500 191 402 473 1204 495 926 37 498 499
1070 642 953 998 799
692 1273 1538 2009
1892

Shock Response Spectra

570 191 1153 877

Shock Spectra use Shock Response Spectra

Shock Testing see also Impact Tests

570 1101 213 704 216 617 288 819
760 708
970 1138

Shock Wave Attenuation

419

Shock Wave Diffraction

1823

Shock Wave Propagation

960 41 1072 1833 1594 1257 228
901 1092 1634 1277 1158
1591 1642
1781

Shock Wave Reflection

1633

Shock Waves

1240 442 1073 274 367 1039
1309

Shrouds

782

Shuttles (Spacecraft) use Space Shuttles

SIHI (Computer Program)

1929

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Simulation
 720 892 233 224 1055 846 17 1018 389
 870 2052 783 614 1155 1306 777 1068 539
 1090 1264 1285 1876 797 1228 1069
 1200 1374 847 1868 1409
 1434 1027 1869
 1924

Single Degree-of-Freedom Systems 1069

Sinusoidal Excitation use Periodic Excitation

Skew Plates
 451 432 2023 325
 452
 992

Skidding 517

Skin-Stringer Method 1577

Skis 1904

Slabs 34 779

Slamming 1055

Sloshing 675 249
 729

Slosh Reduction 823 204

SMIPH (Computer Program) 1841

SNAP (Computer Program) 180 1616

Snap-Through Problems 1322

Snow Skis use Skis

Soil Compressibility 1834

Soils
 380 1461 172 803 1715 1967 1408
 1781 802 1463 1968
 1821 1262 1843
 1911

Solid Propellant Rockets 470 298

Solutions (Liquids) use Fluids

Sonic Booms see also Acoustic Excitation, Sound Waves
 70 121 862 863 864 115 96 787 198 789
 150 791 1402 873 904 865 1727 848
 680 1081 1532 903 1154 1635 1957 1818
 860 1702 1634 1725
 1010

Sonic Fatigue use Acoustic Fatigue

Sound Absorbers see also Noise Reduction
 1481 1992 2033 1525 1557

Sound Attenuation use Noise Reduction

Sound Directivity 573

Sound Generation 1750

Sound Measurement see also Noise Measurement
 1992 1267 1858

Sound Package 1557

Sound Pressures use Acoustic Pressures

Sound Radiation use Sound Waves

Sound Rays 791

Sound Recording see also Recording Instruments 1267

Sound Reduction use Noise Reduction

Sound Transmission
 1240 461 1152 1853 2034 265 447
 1622 1795

Sound Wave Propagation
 1801 1443 1444 1545 1846 1827
 1845 1847

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Sound Waves see also Acoustic Excitation,

Sonic Booms

70 121 392 203 574 45 96 787 28 789
150 1441 1062 363 1394 115 1316 198 1249
600 1671 1622 503 1614 1485 378 1319
680 2001 1652 573 1964 1625 418 1629
790 1992 1323 1438
1050 1483 1458
1240 1623 1628
1630

Spacecraft see also Satellites

300 211 742 233 264 735 296 297 738 399
530 741 892 333 1574 1065 566 737 838 739
740 831 393 1704 1185 906 897 1178 1099
1090 1031 743 1575 976 1117 1188 1479
1640 1091 1193 1186 1177 1779
1101 2063 1187 2059

Space Shuttles

831 1193 1574 735 897 1178 2059
1031 1575 1177

Space Stations

831 1193 1574 735 297 1178 1779
1031 1575 897 2059
1177

Space Vehicles use Spacecraft

SPADES (Computer Program)

1889

Specifications see also Standards and Codes

970 816 1167
1370

Spectral Matrix Method

951

Spectrum Analysis

290 1971 922 923 224 1586 1707 209
940 1452 973 824 799
1874

Spheres

2025 1707 379
1949

Spherical Caps

1625 1876

Spherical Cavity

792

Spherical Rings

1625

Spherical Shells

440 1881 842 663 834 1885 446 368 319
1430 1792 1333 1886 1308 369
1710
1880

Spherical Waves

1653

Spheroidal Shells

1630

Spheroids

1623 1948

Spinning use Rotation

SPREAD (Computer Program)

781

Spring-Driven Devices

1296

Springs

1330 781 695 676 1227 1138 1139
1520 825 836 1667 1898
1296 1917

Squeeze-Film Bearings

1680

SST Aircraft

115

Stability

640 131 592 93 314 305 886 297 558 99
770 771 732 1423 384 785 1366 1217 648 199
890 981 942 2013 1604 1925 1676 1597 898 769
920 1421 1954 1218
1560 1661 2054 1288
1800 1691 1678
1980 1881 1728
1868

Stacks (Exhaust) use Chimneys

STAGS (Computer Program)

1806

Standards and Codes see also Specifications

700 941 1383 484 1275 856 1229
1230 784 1626
1826

State Vectors

546

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Static Analysis
1812

Static Linearization
932

Statistical Analysis

1431 1012 555 256 397 198
1432 1016 1067 798
1038

Statistical Energy Methods

174 116 738
316

Statistical Linearization

551 1424

Steady State use Periodic Excitation

Steady State Response use Periodic Response

Steel
1850

Steering Columns use Automobile Steering
Wheels

Step Response

1876 1417

Stick-Slip Response

1745 1747

Stiffened Cylinders

901 994

Stiffened Panels

9

Stiffened Plates

544

Stiffened Shells

2021 1875 1508

Stiffness Matrices

1592 1195 1056
1615 1596

Stochastic Processes

770 131 932 1203 774 36 1799
1961 1452

Stodola Method

158

Strength use Fragility

Stress Waves

84 1889

Strings (Structural Members)

400 71 632 533 734 245 396 77 628 69
1861 1102 623 824 1285 826 397 399
1931 1842 983 1104 1576 1287 979
1203 1284 1487 1669
1863 1674 1979
1864

Structural Analysis

21 13 24 187 188
104
334

Structural Damping

371 42 205 1856

Structural Design

192 483
1603

Structural Members

1010 211 53 597 48 929
313 898
928

Structural Response

690 571 2042 263 904 185 306 1077 328 949
780 831 755 1197 428 1429
910 1011 895 478 1939
1291 848
1451

Structural Synthesis

741 2 143 189
1521 212 313 1119
742 1409

Structure-Medium Interaction use Interaction:
Structure-Medium

Structures

312

Structures in Fluid Media use Submerged
Structures

Sturm-Liouville Theory

1521

Subharmonic Oscillations

772 308 309
1212

Submarines

290 1394 2058

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Submerged Structures see also Offshore

Structures									
50	591	332	93	374	245	106	397	658	319
260	661	752	293	654	1285	1886		1048	339
290	1001		363	1394	1315			1308	369
1430			653					1508	
			1563						
			1663						
			1963						

Supersonic Aircraft use SST Aircraft

Surface Grinding use Grinding

Surface Roughness									
810	1361	112	1543	1344	1335	646			
820									

Surveys (Reviews) use Reviews

Suspension Bridges									
1861			474	525				128	
2041									

Suspended Structures									
1171			533	474	525		397	128	
1861								1168	
2041									

Suspension Systems (Vehicles)									
340	261	282	143	494	695	156	17	278	59
490	1361	302	713			516	217		489
700	1492					696	697		1169
880						866	867		

Sweep Testing

55

T

Tank Cars

285	508
-----	-----

Tanks (Combat Vehicles)

494	1148
1074	

Tanks (Storage) see also Shipping Containers

1020 511 702

Tapered Beams use a combination of Beams and Variable Cross Section

Tapes use Moving Strips

Taylor Series Method

1428

TELSAP (Computer Program)

1929

Temperature use Thermal Excitation

Test Data

40	71	1502	153	434	205	536	667	428	839
780	1011	1662	603	1404	475	646	757	838	949
1720	1151	1672	863	1714	935	1026	1257	1618	1169
2030	1311	1902	1063	1734	1065	1056	1337	1838	
	1381		1113	1764	1565	1446	1377		
	1491			1834		1536	1657		
	1621			2004		1546	1927		
	1781								

Test Equipment

850	221	802	213	214	385	386	807	609
970	621					616	1477	819

Test Facilities

220	811	1683	215	216	387	698	939
810			1265	806	1477		
				1266			
				1466			
				1656			

Test Fixtures use Test Facilities

Testing Techniques

230	201	232	393	384	505	56	47	48	169
380	211	392	593	704	615	176	687	118	229
1100	701	472	603	814	815	236	817	228	1329
1400	1091	622	703	954	925	346	1197	708	1439
1470	1101	702	813	974	975	616		738	1479
1500	1921	762		984	1475	816		818	1539
1850		1112		1474	1535	1096		868	1619
		1382		1664	1655	1626		1098	
		1632		1665	1666			1258	
		1902						1268	
								1568	
								1638	

Test Instrumentation use Measuring Instruments

Test Models

391	122	473	204	355	726	1427	708	829
651	222	1303				1757	838	1199
1261	1812	1913					1228	1289
1621	1392							
	1742							

Tests use a more specific term: Acoustical

Tests, Dynamic Tests, Fatigue Tests, Impact Tests, Resonance Tests, Shock Tests, Vibration Tests

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Transient Excitation see also Time-Dependent Excitation

90 1654 105 1049
1420 1539

Transient Response

70 81 252 243 184 85 86 667 318 139
90 91 792 253 434 135 156 827 448 649
140 241 1192 1113 654 445 426 1297 768 999
150 541 1222 1213 854 745 556 1707 928 1539
180 1171 1612 1433 1014 825 766 2017 978 1559
230 1501 1702 1054 915 916 1088 1879
840 1881 1812 1334 1285 1116 1288 1949
870 1981 1982 1804 1475 1506 1308 1969
1110 1984 1875 1516 1668
1410 2024 1935 1576 1698
1700 1886 1708
1880 1936
2020

Transient Vibrations use Transient Response

Transmissibility use Transmissivity

Transmission Lines

553
1403

Transmitters use Measuring Instruments

Transportation Systems

340 152 713 714 196 957 218 489
490 822 733 288 509
1170 1023 1198
1228

Transversely Isotropic Media

598

Transverse Shear Deformations

561 92 254 95 2009
731 562 614
1221 842 1884

Transverse Vibrations use Flexural Vibrations

Trapezoidal Plates

656 657

Traveling Loads use Moving Loads

Trees

1590

Truck Frames

879

Trucks see also Automobiles, Buses, Cargo Vehicles, Motor Vehicles, Trailers

783 2055 696 867 59
866

Trusses use Framed Structures

Tubes see also Piping

430 241 1352 1504 646 67 648
651 2004 1758

Tube-Vehicle Systems

957

Turbine Blades

1491 412 984 1476 638

Turbine Components

731 412 984 505 756 757 638 1129
761 1562 1476 1749
1391 1772 1776
1491
1681

Turbomachinery

160 1661 762 1784 195 46 167 538 938
1930 1934 1405 636 1567

Turbulence

111 122 1723 1244 796 1866 198 2039
1341 1844 1226 1828

U

Ultraharmonic Response use Ultrasonic Resonance

Ultrasonic Techniques

1850 1407

Ultrasonic Tests

974 616 1258 169
1474 1278 619

Ultrasonic Vibration

764

Ultrasonic Welding

1270

Unbalanced Mass Response see also Balancing Techniques

1560 1564
1584

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Underground Explosions

200 691 342 353 354 1835 356 357 588 589
951 943 1636 2058 1249
1251 1836 1849

Underground Structures

480 1071 1907 1008 1649
2061 1538

Underwater Explosions

752 1823 1257 1348 339
1309

Underwater Sound

390 362 43 934 45 1086 347 378 349
612 1053 1064 545 1846 1087 379
1082 1083 1084 1085 1966 1237 969
1274 1445 1777 1059
1964 1827 1239
1847 1269

Underwater Structures use Submerged Structures

Underwater Tests

1258

Urban Noise

1825 1246 1247 1248

Urethane Foam use Foams

V

Variable Cross Section

1490 451 992 184 1775 1887 178 629
2001 2012 1484

Variable Mass

1425

Variable Material Properties

1670 1425 367

Variational Methods

1220 1421 554 1607
1941 1854

Vehicle Wheels use Wheels

Vehicles use a more specific term: Flight

Vehicles, Ground Vehicles, Motor Vehicles

Velocity Control use Deceleration

Vibrating Structures

1571 1182 1464 1366 1328 1679
1242 1416

Vibration Absorption (Equipment)

1930 61 782 633 1235 1547 1918
1523

Vibration Absorption (Materials) see also Shock Absorption

1684 1916 148 299

Vibration Analyzers

1470 1851 176 1267

Vibration Control see also Vibration Absorption

1860 782 733 1235 46 299
1930 1033 506 679
1263 1916
1976

Vibration Dampers

491 1335 58 299
849

Vibration Damping

1840 51 52 853 4 146 17
1872 424 1486 207

Vibration Detectors use Transducers

Vibration Excitation

690 1681 1262 1353 215 196 538
1520 1543

Vibration Frequencies use Natural Frequencies

Vibration Isolation see also Vibration Control

140 281 142 143 284 278 279
462 283 1524 458
1918

Vibration Isolators

280 282 513 896 538
830 422 1003 1118
1688

Vibration Measurement

1000 611 382 1663 54 975 226 1267 48 509
2040 1741 1094 1095 1476 519
1831 1235 2039
1465
1975

Vibration Mode use Normal Mode

Vibration Monitors

383

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Vibration Recording

1267

Vibration Reduction use Vibration Control

Vibration Resonance
1313

Vibration Response

20 301 372 173 34 55 16 207 138 119
 270 361 672 523 114 505 116 267 248 209
 470 911 762 673 324 535 206 837 298 229
 1180 1281 952 1103 494 685 266 967 408 339
 1200 1361 1772 1273 504 965 686 1017 518 359
 1500 1491 1792 1403 584 1345 846 1317 628 539
 1590 1561 1922 1423 824 1505 926 1427 1208 549
 1690 1651 2012 1773 1234 1585 986 1477 1398 669
 1710 1701 1903 1344 1775 1146 1497 1418 799
 1740 1874 1915 1226 1547 1748 1089
 2004 1686 1837 1758 1099
 2056 1907 1888 1839
 1988
 2038

Vibration Tests

620 231 212 223 214 55 216 57 78 299
 760 621 232 973 234 1015 236 287 218 1479
 970 861 472 816 477 738
 1390 1091 512 1266 617 1478
 1461 1666 807 1968

Vibration Tolerance

811 884 846
 1356

Vibrators (Machinery)

130 171 172 493 284 765 1946 907 1588 1589
 170 621 804 1195 1477
 641 1654 1587

Vibratory Compacting

172 763 604 1408

Vibratory Conveyors use a combination of
terms Vibrators (Machines) and Materials
Handling Equipment

Vibratory Mills

170

Vibratory Tools

608 1409
 1408

Vibroburnishing

1035

VIDEC (Computer Program)

1585

Viscoelastic Core-Containing Media

402 1983 404

Viscoelastic Damping

12 1263 424 1865 1137 849
 402 1453 1974 929
 1282

Viscoelastic Media

1652 183 827 1088
 1653 1607
 1977

Viscoelastic Properties

260 1744 257 448 1089
 437 1128

Viscoplastic Properties

935 1299

Viscous Damping

1511 372 1563 205 1336
 1593 595 2046

Vortex Noise

1241

Vortex Shedding

110 82 754 1736 1758
 782
 1352

VTOL Aircraft use Vertical Takeoff

Vulnerability

274 285 1148

W

Walls

460 1152 473 1014 96 428
 1010 1192

Water-Hammer

1305 649

Water Power Engines

1034

Water Skis use Skis

Water Towers

1947

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Water Waves
132 1055

Wave Attenuation

419

Wave Diffraction

2010 661 792 1623 374 1625 1966 1697 1238
1641 1643 574 1438
1781 1693 1644 1628
1823

Waveguides

553

Wave Propagation see also Group Velocity

600 41 952 1403 444 265 36 247 28 599
790 461 1062 1443 914 435 416 447 228 619
960 901 1072 1833 1444 1545 436 1257 418 629
1420 1591 1092 1594 1795 1846 1277 1158 1109
1790 1781 1152 1634 1845 2026 1827 1668 1249
1801 1622 2034 1847 1898 1629
1841 1642
2001 1652

Wave Reflection

1633

Waves use Circumferential Waves, Dilatational
Waves, Distortional Waves, Elastic Waves,
Extensional Waves, Flexural Waves, Longi-
tudinal Waves, Mechanical Waves, Oscillation
Waves, Rayleigh Waves, Shear Waves, Sound
Waves, Spherical Waves, Standing Waves

Wave Scattering use Wave Diffraction

Weapon Effects see also Nuclear Explosions
261 237 228

Weapon Systems
1070

Welds

955

Wheels

1075

Wheelset

508

Wheel Shimmy

2054

Wheels (Steering) use Steering Wheels

Whirling

731 983
1751

407 718 1199
1597
2057

Wind-Induced Excitation

1471 922 26 1528
1531 2062
2041

Windows

70 1081 1532 1154 96
1010

Wings use Aircraft Wings

Wires

77

Wobble Damping

1779

Work Hardening use Strain Hardening

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CALENDAR

Meeting	Date 1973	Location	Contact
9th Annual Meeting and Technical Display, AIAA	JAN. 8-10	Washington, D.C.	D. Wendling, AIAA Hq.
Automotive Engineering Congress and Exposition, SAE	8-12	Detroit, Mich.	A. J. Favata, SAE Hq.
Meeting, SEE	17	London, England	Secretariat, SEE Hq.
6th Conference on Applications of Simulation, IEEE	17-19	San Francisco, Calif.	L.W. Heine, Lockheed M & S Co., 170 San Pablo Ave., San Francisco, Calif. 94127
1973 Annual Reliability and Maintainability Symposium, AIAA	23-25	Philadelphia, Pa.	D. Wendling, AIAA Hq.
Meeting, SEE	FEB. 13	London, England	Secretariat, SEE Hq.
Dynamics Specialist Conference, AIAA	MAR. 19-20	Williamsburg, Va.	D. Wendling, AIAA Hq.
Annual Convention, AREA	19-21	Chicago, Ill.	E.W. Hodgkins, AREA Hq.
Structures and Materials Conference, AIAA/ASME/SAE	19-23	Williamsburg, Va.	Meetings Manager, AIAA Hq.
14th Structures, Structural Dynamics and Materials Conference, AIAA, ASME, SAE	20-23	Williamsburg, Va.	Meetings Manager, AIAA Hq.
International Convention and Exhibit, IEEE	26-29	New York, N.Y.	J.M. Kinn, IEEE Hq.
19th Annual Technical Meeting and Equipment Exposition, IES	31-4	Anaheim, Calif.	Betty L. Peterson, IES Hq.
Annual Structural Engineering Meeting, ASCE	APR. 9-13	San Francisco, Calif.	E. Zwoyer, ASCE Hq.
Spring Meeting, ASA	10-13	Boston, Mass.	J.A. Swets, 50 Moulton St., Cambridge, Mass. 02138
Joint Railroad Technical Conference, IEEE, ASME	11-12	St. Louis, Mo.	IEEE Hq.
Meeting, SEE	16-18	London, England	Secretariat, SEE Hq.
Design Engineering Conference and Show	23-26	New York, N.Y.	A.B. Conlin Jr., ASME Hq.
American Power Conference, IIT	24-26	Chicago, Ill.	R. A. Budenholzer, Dir. APC, IIT
Spring Joint Computer Conference, AFIPS	MAY 1-3	Philadelphia, Pa.	H. G. Asmus, AFIPS Hq.
29th Annual National V/STOL Forum, AHS	9-11	Washington, D.C.	H.M. Lounsbury, AHS Hq.
International Congress on Experimental Mechanics, SESA	13-18	Los Angeles, Calif.	B. E. Rossi, SESA Hq.
National Automobile Meeting, SAE	14-18	Detroit, Mich.	A. J. Favata, SAE Hq.
27th Annual Technical Conference, ASQC	21-23	Cleveland, Ohio	R.W. Shearman, ASQC Hq.
16th ISA Power Instrumentation Symposium, ISA	23-25	Chicago, Ill.	A. Watson, Westinghouse Electric Corp., 10 S. Riverside Plaza, Chicago, Ill. 60606
Canadian Congress of Applied Mechanics (CANCAM)	28-1	Montreal, Canada	A. Biron, CCCAM Hq.
Lubrication Symposium, ASME	JUN. June	New Orleans, La.	A. B. Conlin Jr., ASME Hq.
Summer Annual Meeting, ASME	10-13	Philadelphia, Pa.	A. B. Conlin Jr., ASME Hq.
14th Joint Automatic Control Conference, AIAA, AICHE, ASME, IEEE	20-22	Ohio State Univ. Columbus, Ohio	H. R. Weed, Dept. EE, Ohio State Univ., Columbus, Ohio 43210
Applied Mechanics Conference, ASME	20-22	Atlanta, Ga.	A. B. Conlin Jr., ASME Hq.
76th Annual Meeting and Exposition, ASTM	24-25	Philadelphia, Pa.	H.H. Hamilton, ASTM Hq.
Meeting, SEE	JUL. 4-5	London, England	Secretariat, SEE Hq.
Transportation Engineering Mtg., ASCE	16-20	Tulsa, Okla.	E. Zwoyer, ASCE Hq.

